# Aviation Vews



Lawrence D. Bell, president and general manager of Bell Aircraft Corporation, who was elected president last week of the Aircraft War Production Council, East Coast. On Sept. 1 he also assumed the position of president of the National Aircraft War Production Council. Big Bomber Production Soars

August output of four-engined bombardment craft is three times the monthly rate of production at the beginning of the year.

<^>

August Plane Output Sets Record Latest report of last month's warplane turn-out indicates previous all time high of 7,373 is exceeded by considerable number.

☆

Hughes Shuffles Cargo Plane Men Edward G. Bern resigns as chief of eight-engine wooden cargo plane project, followed by his aide. Both firms deny Kaiser-Hughes split.

24

National Service Act Seen Close observers in Washington fore-

cast a National Service Act and believe "educational" campaign is already underway to prepare the public.

W

Action Hinted on Foreign Routes CAB is asking for data on the international air routes most likely to be required first, and hints that some action may precede the Armistice.

25

CAB Defines Jurisdiction Clarifies its authority over airlines which are owned or controlled by other types of carriers, specifically commenting on Northeast case.

❖

3 Lines' Financial Reports Analyzed Financial commentator compares record for first six months of the year, made by the three transcontinental lines, American, TWA and United, with a year ago.



CONSTELLATION

VICKERS Victors Hydraulic Economent is used on many of the most modern airplanes. The Lockberd "Constellation" Transport Mustrated here is representative. HYDROMOTIVE Vickers Hydraulic Controls are high pressure of hydraulic controls that are so widely used because





1304 GAESIAN BLYB. . HETRIET, MICH.

THE AVIATION NEWS

# Washington Observer

AIR POWER-For a mon who has had such opportunities to observe the potency of air power at close range, Records a Brucken, British Mores-He actually discounts our power as a decisive factor to warries the next He conceded that athtude at a Washington news conference tens strictly lake-warm on or never neodofittes.

PLYING BOATS VS. LAND BASED PLANES -This perential arrangent see a little new feel



urged along with recommendation for in-

Gleun L. Mortin, of course, has long been a lender reference of the firing heat the list order are the encureers who recention that the landaus heavy that operating efficiency goes down. hand, that the buil of the Britis boat reduces correction officemen Another arranged recently his been advanced by the firther book people-a psychological one. It is that moneagers thing ever water have a greater sense of accuracy of they know their simplese can hard in water. The hard-based plane people one this organical deem't hald in view of the daily transcents; trips being made, not only by experienced sirmen, but by passengers of great premium-

from WPS Charrean Denald Nelson showing that our combat plane production exceeds by a report And tendentally the Office of Was In-MANAGEMENT ON THE SPOTT Tox WPH

officials believe that the real test of moneyment's year contribution is now common up, norficularly or records measuremen. They contend that there must be more efficiency, better utilisation of labor and—more and harder work by labor. They are privately expressing concern that engagement, having done a magnificent inh up to this time, may spall some of the record by stambling on production coming down the been stretch. They are concerned, too, they say, over indications that management believes equipment in some categories. That, say these WPS officials, is for the military to determine. here rearly as birth as printrelly enforced.

RECORGANIZATION - B's a dell week in Washington when a government agency is helbeing reorgenized. Latest reports concern a

up which would include parts of Lend-Lener, Office of Strategic Services, Office of Economic Workers, Gay, Lebrear's cross, Office of War aurtment divisions and what is left of domestic OWI Incidentally, Elmer Davis has desired persistent reports that he was going to resign Claire be ma't.

SHITTING MISSION...There have been recurthe British Ministry of War Transport, which

#### AVIATION NEWS September 6, 1943

Wedgegee Observer
Possible News Sedies
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THE PHOTOS

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of Emil Duch Air Loca love Experts Agency and Air Levis orbid. English & Applicat oxylvania-Costnii. Arbine

TET H WOOD . Edward Comment of the C

Editorial Headquarters, 52 National Front Fartiling, Weshington, D. C.

one \$100 a row \$11000 for one rays \$2 to piou men depleases for section of section of the product of \$1000 for \$10000 for \$100

Advertisces Index

Gods Indiction Henry
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Homes Mig. Co. 10
McGene Mid. Politiching Co. 10:
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Synt Accounted Co. 10

AVIATION NEWS - Sentenber 6 1963

Washington Observer

NEW CARGO PLANE—Furchild has a new orage place on the way about which filled may be said at the time. He understood it is a maitiple-purpose place and surners who have some 2 are estimated. Watch fer contribute to break on the widthe two or three weeks, Andspeaking of carpo places, a paritype of the new Budd cargo carrier (Bintrated in the Aug. 2 inces of "Archina Noon," will be ready in a

NO BOMBHEST—There is probably no subject more publicly his-hash and more publicly discussed in systems certice than the new time several networks of the publicle of the publi

It is interesting to near that white the United States health the greatest long-range househost in the wealth, the ward's air distance moved in still held by Britain—7,150 ml. Obviously there is no difficulty to Note 1,888 m. but in the

sill said by Britan-1,150 m. Obviously there is no difficulty in foliag 1,460 m., but to 6y 1,000 ml. with a metful bomb-lead. That is the problem:

AIR SERVICE COMMAND—The OHI square the AIR Service Cornwood is new set for installine Servi. If retracts it is swelfer. We need to stock the Service Cornwood in the swelfer. We make the service Cornwood, with himologuester model has been deling on outstanding plus with falle Indexes. The coverand, with himologuester states of the swelfer and the said control of the service control of the service of the service of the service control programs and past of the payed in at Tableton Padd volume the construction prepares but like the Air Cognition Padd cognition Results for one employee in the Service Country of the Se

AAF CHANGES—Winpers of recognizational visites.

AAF CHANGES—Winpers of recognization within the Army Aar Forces is not enlirely without basis in your of several changes recently in AVIATION NEWS 8. September 4, 1965

she intelling sengminents. There are informations that a whappear, they will be hand for some plane production likeliners and that it might resching his the old material command, now the Office of the Depth Charl of Air Bodf, Macroni, Massacance and Distribution, May Gen. O. F. Edodia, General Edoda Inmedif his been awardanced in sense coreful connects in this connection, subheaph must of the olders for planet serv considered objective warm made before in service control or made before in the connection.

EOBOT FLANES—Reports from Sweeken that a pixeless German syntery plane which enclude there had been secred by radie were not maprising to our own axiation technicans, who have Gree and are delay considerable work thesistives on each equipment. Very secret, havever.

SKYMASTERS—Small quantities of Deuglas C-95's (Skymasters) are being turned over to some airlines for their Air Transport Command operation. Most of these are for over-water



comes Latori deliverana are so United Air Esten, which will probably the their over the Parelle The apprisone gasted in the use of the laterabased engage place as an over-resister roots endoubtedly will be of great value when processing their processes the processes in presented. This expenses or compared with that of the flying bost expenses of 27m American's Zonen Citypes's vill provide placity of land-based place versus (fings) bost expression of 27m.

These is a storting necessary in the speed composition, the see Boward Bugher confering over twin-bases resist-regime experimental plane now subsequent tests or Offirman's Happen Secort Three is much appendition or the Happen and the 2-6 (for Osmanol) and is removed to how passed 250 reply at quartertesting, and the conference of the conference of the conference of the conference of the tests of the conference of the c

spent matery designs.

Services 6,

#### CAB Defines Its Control Over Lines Owned by Ground Carriers

Holds periodiction only if stock ownership has increased since passage of Civil Aerosautics Acc.

The Cort Jerusakes Described and He Jack rates to describe the bill that is a surface and the first the Jack rates and sometimes and the surface and the surfa

regions and countrel III was been did not be to be to

the proceeding, share 46 percent is frechestal stock with the other stallness and the adversa voice as stock with the applicates on every major sume which has arone. The Board found. Northeast a few days inter polisared for permissions to when your last which it requested be received for permissions of the same which it requested be reported and permissions.

Northeast a few days hater policies and fire previous to metric the case which is requested for previous to the case which is requested for produced the produced that the control of the case of the opinion that "while we do not to opinion that "while we do not to opinion that "while we do not to opinion that the control opinion to opinion the control opinion to the control opinion to the control opinion that the control opinion that the control opinion to the control opinion to the control opinion to opinion the case where the exceet or effectiveness or control has increased.

Control—The number of powers and the degree of influence which the controller held on the effective AVIATION NEWS - September 6, 1943 American Report Lama control once, the board desired that "Compressional action clearly indicates non-cleaned that the public interior mediates that the various forms of that the various forms of that cach can operate in fit own process mitigated by a fit officer, and the operation of the other mediates mitigated by the other compression of the other fully each estimated in which there exists a relationable between the several and another common current."

A contract of the contract of

Mustang the World's Fastest?

lized Mesquary has been elizited of shell bleve a higher top speed on the facility trappies in the out to been futured. The rope uponed of this Lightwing is up in that more extended all-mood recognises brackets concentered all off these store-been eligible in an invoice allower sometimes all off these store-been eligible in an invoice allower to the control of the

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1385 . Merefectures of Lacitated Medic since 1921 — NEWARK - DEL. W.RE

by the nebboner as bayone heroman Northmat is one of several appli-

overwired." Nertheast described th so "totally unnecessary" to require

3 Battle-Scarred Maranders on Tour Burde planes, back from Sicilien

campains, making cirruit with Three hattle-scorred Marker Mar Chamber Members Street at Markin-The loar started Voting On Plan



SHOWS BRITISH CONSTRUCTION METHOD This new photo frees Victory Aircraft, Torquito, should

And Eastern Councils Succeeds Color as receivent of mation-wide groups meeting planned. Lancrence D. Bell, recorded of

Bell Heads National

Reorganization proposal being capturered by most halfors:

revitalization program reported to the Spord which was understood to have approved in general the reonessts subsysted. These sizes call Ceriton Werd, president of Fairchald

with a knowledge of the industry Deadline-With the return of the I Food & West Meet-A year meet-

Sept. 10 deedline, it was experted sary to trake required changes to

WPB Seeking Cut In Plastics Uses

New committee formed to encourage use of other materials

fit on the small 30-ft. freight part of British reduced

AVIATION NEWS . September 4, 1949

> Vital Features-Only three reasons weight (3) if the use more mon-

Northrop Producing Secret Warplane Type

Cake alliades to new design an reverling shift-over in operations

Doversial Worst ware," when La Motte T. Celts, general gransper of

August Plane Record There is good never from the

and was substantially above ON Plateau. The August Brow production off the disconcertofficials warried POucts Unwarhed ... Whate the

under the Aurust schedulebut that is posture new. The August schodale faure proba-Next year's apprain school-

ules are being formulated on

Best Output Quotas-Coles, or re- > "Deadlier Type" - The executive dischard no details of the new naing June, July and August, their Firities Answered-He took soon-

sands of manufacture of manufacture

31. "our delayeres amounted to noproximately \$70,000,000, on increase Now Becords in '66-'Trum here new Northrop preduction model we expect to reach much higher

Post-War Airline Frederice - Research - Cobs "Romance" Decried

problems were assalved in stepping PCA President sign years will be needed to set up world systems. models while enganeering and set-The public's theorem that airbren ships at drastically reduced rates the only one in which production

ident, at a Krwariz Club kincheon le Washington lest work of a new ampliance, designed to our . Nathing New-'Absolutely nothpost onything in the air of his pur- my new in the way of planes had come out of this wer," and Morare



AAF DEVELOPS A PROP ICER Exercises at the AAF Materiel Command, Wright Field, have derived this

blader while the plane is in flight. Water stored in tunio beested in the

AVIATION NEWS . Sestender 6, 1913



#### Earth-Bound No Longer YOUNG HAWKS OF CHINA'S GROWING AIR FORCE FIND THEIR WINGS IN DYAN PLANES

Today the ever of woman China are in the

forting with the fivers of other nations. Roan is proud of the part placed in this by its military touner airplanes. These sleek, highly more overable planes sign llar to the Roams in which American Army pilos get their first training - are being used in Chins, not only for primary training, but also for bears and

premitized intraction. Since 1940 Ryans have been reliable "work-horses" for the growing Chinese Air Force, Here, as elsewhere, Evan planes in military service have record

Roan's surrent activities include the engagering, development and manufacture of the most advanced type combat.

airplanes for the armed services of our

AVIATION." A conperhence by resistic been enching airplanes for 30 seam, pers down A capy pladh sea at your request.







STAN ATSCRIATURAL COMPANY, CAN BOOK -- MINNER, ADDRESS WAS PRODUCTION COUNTY, AND

CAB Hints Action on Foreign Routes Successive industry submit continu

> The Civil Assonistics Barrel in official recognition of international closed it is reaking an informal study of unternational routes 'likely to be

the arines themselves and the

b Views levited-Interested persons if accompanied by supporting maly-

billionis for Applications. The annearest most emphasized that while

"The study," the board named

the routes which would be dour-I World Picture-This was laterpreted to mean that the board is AVIATION NEWS . September 6, 2943

Moralian Housest De more programme appropriate may not have to they receive official attraction. This tation by lobbying for conglisions in ne a period during which applica-Forme-Another evidence to that effect came in a recent racke comevisors. The war which of course. holds top proprity, stopped such

> confly, that "regardless of when the permate that to be done " Flexible Febrer-Another example of restoration of domestic new route

The continuation was made, how-

Convair Training Plan Fortners without existing ex-

Fort Worth Drymon of Corool; persones will be accepted for a past per moreh and, upon narcountal assigned to design drafting or stress Worth plant at salaries of \$292.50

#### To Fire Absentees Cartiss-Wright Corp. alrelate da

vision at Buffelp has announced that



Just released to this photo of the Boomy Flying Fortress' new freezed post-



MARAUDER BATTERS NAZI GLIDER:

#### Interest in Future

Airports Growing

Administrator Stanton reports na-

much attaction to slobal expansion. pert situation at length in an address

#### West Coast Manpower Plans

Danaid Nelson upofficedly con- (8) Integration of plant-princity

(i) Control of 100 shifts as in (1) What has harpened to

(2) Will the newly set-up Labor 133 Withdrawal of all war res-(6) Control of crythen goods pro-

Charles Wilson's plen for two Requirements Committee adother synante or combined a sea-(3) What has happened to the

(6) Intensive teh peccuipment program promoted by WMC

Questions that remain upon-

Expansion Projects—Attention foleme for murethal sirports in abotown development of landing areas

How Mig!-The question followed

This exterest was noted by Charles I Stunton, edimenstrator of the Cresi \*Location Generally Startes an-Local Airports First-The confer-

told the conference that the field

Three Airport Grants nerrorited to spend \$250,000 on an \$344.669 will complete an arrort Shadle Calls for Uniform State Laws

CAA General Council surr screw

erament," he said, "great decree ) Defines Air Nastration - Horse worst to expect" But, he purpod out, a uniform state sales set has

I Insurance Shadle discussed avia Peakebris Restraint - He saled a of the surroom can moure amount processi risks and the insurance

b Bevolving Fand - He predicted act on another bill introduced by the First or Now-Co the action of Congress, he said, "honges, in my

address with these productions. the Civil Accommutate Act, still in oir corriers, that therefore there the House Interstate and Foreign about the no necessary for the federal

Corentre Congelitee rather than government to enter the available California Democrat to provide for mestic comparison in reinspersors.

err end war risk insurance from a TELLING THE WORLD

whether systion shall remain part . Facult advertisement in the curvaron. Aventure Corp., to built

sround a 'Secret Wespen' theme (American incomulty). Copy has name and products. One basic facunderway a new type of ambulance

table or mantle. Opposite the pic-Air Express Marks

16th Anniversary

more than 1,495,000 showments but Today's inter-city schedules are

Flaternational Air Engress-Tioner

Captured 39-calabor enemy machine gree ballets as until as 27-mon common proused for sent strong of six more game, sakale at the right, a ton turnet.

NEW FIRING RANGE AT WRIGHT FIELD

#### THE AIR WAR

#### U. S. Leads World in Radial Engines; New V-Type Liquid Designs Near

Navigator, in severy of Allies' and Axis' power plants, warns of advanced developments in German craft

in a combat plane the engine in the prime cresideration. In the root to Mir-resid Leaders - in the field lands the narrow. The Profit & Whitefirst 15-religious 2.000 has excite to and Navy fighters, bombers and

Goodway and Beewster), Grammany new PEF Nelleer, full per-18-Cylinder Job - Wright Acroa somewhat larger 18-cylinder job and has been used to date on Con-

howher or transport to date, al-

Amountement that the new type ers, including the Stirling, Welling-892, an 15-cylender version of the highly efficient B.M.W. 881 which 200 heavy transport. This 14-cylin- in the Cartiss XP-40 in 1919 with a

The 18-collector DAW is reported cooled Namer Sobre, with above

Plag is Logard-Cooked Progress-There is no doubt that the country is supposed, however. While Germany their severted V-12 Daireler for a referenced version of the Ness the up 1,000 hp in 1935. The exactder course in roughly equivalent to 1,000 kp, rating, but all carly de-Wright's B-2000 Deable Codese, liverees had to be held back to



take-eff, and 1400 for operations monte required in a 150-hr test m

ILS BUILDETS RIDDLE AIRACOBRA:

desentes fakting planet are being riddled with bullets from Assertion

FOR PILOTS



# Increased Operating Efficiency Through Automatic Engine Control

Ale combat racticism mp, "Leave the pilot free for fighting." Freedom from the constant manual operation of engine enotepls, and sales, more efficient segion operation to the purpose of the Summando-Hoboca Associatic English Controls.

This contracting engineering development continues on important sace coward releving the price of system for manmany control of such contrals as manifold promot and minutes, it note as a shord hand for the pilot, giving expire

Properties service and now in occulation for the Selection places of the United Notices are used which records ratio many married of smallfuld manager (bount) and minture. With even more for exacting designs now in the experimental stage, Simpouds office its across to the reducers to headquarters for





ROGREFELLEE PLAZA, HEW YORK, N. Y. Arthretis Davier Controls - Radfolf Control - Madesale Assemblem -Account and Community for Markado Salamo, 1. Chapterskip Salamanian 1 September 200 Composed to Redwick Spinon - University September 1 b "BIO" Althon - Two years later

exther as in Britain's Relia-Boyce reverse which was the lottle of Bra-DR-601 in the Mc-100E and Heinkel

and better mediane-compand aroul | Serprise Destruction - Legitternor may be over the burns, but there

un to 40,000 ft , and necestitating a

4-blade propeller. This is welcom-

h Hard-Hash Percer - in the 16-

# P-40's Score

1.287 Axis superaft of all types stands at 11% to 1.

drumboured, 14-extenders 2 000 ho Allinen and the new Merim, both

AIR-WAS REVIEW: Berlin by to of the Italian boot was bomb-sweet

less-level attack The 10h was comfrom the Middle East Command I Greatest Buttle Yet - The ottoric

Fincreased Temps-Our 14th Air estinder 1,500 km. V-type liggedcooled some field. Britain has the increased tempo of Albed strategic

enertied out a senses of bombing yards. All returned safely.

bombers mounded the Jap air bear h Two Banks-Detailed remets seen Reprostury and Subsystature on

cearful month of air firhting since the Army took over from the Marines on Gasdalcanal. They shot down 191 onemy success to August

with the loss of cely 16 The menth's bag included 127 fublers. nine medium bumbers. The month's t Earny Fighter Output - Reports

upprants of 1,500 of there in north-

AIRCRAFT PRODUCTION

#### Monthly Heavy Bomber Production Triples Rate of 8 Months Ago

August manufacturing survey shows hig gams over fuly in all plants except Willow Ren, with national output well over 700. The aircraft industry in Astrust is below provious months. This is

produced nearly three times so partly explained by the feet that many four-engine bombers so were Willew Bun is providing parts for other plants, but not entirely of the year, according to reports + Navy Planes. In the overall fourb Output Knope Going Up-The proto the Array Production of these petrol books was reported to have

Broom Loss-Our record loss in

NAT Nov. firbgers, an important year. While Assessed production old whittee down of the Luttwork's fighter strength b New Nasi Tueties-Thu takes on added regardence in view of new defense methods reported by mrmen buck from German ranks Ir Fintre Plants-In connection with be receivablesed that they are betage produced other than in the home

Degales has added to the Fortress evine! of Lone Seech and a building the Laborator at Tubes, Yorn haz FLiberators Doubled - Consoli-

Fresk in Sight - The output of

in recent months and most producmanpower problem can be solved

) Willow Ram Sharept -- There is one Liberator and Dionation Share Shape 3-24 Liberators are being assembled discouraging page in the victims in

an effort to most our stepped up bendung they tried an essecutive our relock will be waring for them Nelson States—In his fermal re-Charman Devold Nelson said that agreeaft and related manchons

last year In nounds, it more than doubled the July, 1942 output Mincreases—Nelson said there was scrifteed addition to surrout oneduction, not included in total fire

Li S Chamber Stores reads on the Monorrecherit factory Surplus Plant Study Lockbent's Voorbes named on new committee, in other Seer, 9.10.

The U S. Chamber of Commerce



# Aviation—A Progress Report

The Lessons of War Become the Key to a Richer Peace

This is the Attraceth of a series of edito-

rials obtaining monthly in all McGrow-

Hill habitrations, reaching more than

are and one half million readers. They

we dedicated to the purpose of telling

the next that each industry is pleasing in

the war effort and of inferming the bub-

Through, Parcellina, Some—stepping stones To momentous except! But that is not all. For they spell set across the blue waters of the Mech terminein a pottern of invasion that has progressed for since list summer's first major Commundo opersion arisin the Franch course.

From Dispye, yon centerabor, too many of the suddess never got back But in Stazion, and on through Sidly, the Allied might played ancountly forward, wearing objective after objective at a xurpeisingly low cost in casualities. An exposuracy or the battlefield '98s, But we have kerned, too, how

to save lives and skorten the war by attategic sir bomburdracut as a prelate

to incurrent.

\*Thus the bombardment plane—much seem by the doughboys on the fighting fronts—is decisioned to arrest their fives by handreds of thousands in the docurrents attacks that are to come attacks that are to come

the grocosis

This fact is confirmed by the cold calculations of the sesponsible strategists. It will give renewed courage and confidence to every member of the armed forces and of the horne foots throughout

the United Notions.

For instruce: thorough strategic breakastinent of an objective reduces by searth fifty per cent the surface forces required for investors. Authorstood losses are reduced from more than fifty per cent of the original governed from the strategy per cent. Proceious been benefitted to a story theretary per cent. Proceious been benefitted to a story of the strategy of the strateg

The inference is clear Effective prosecution of the war will require smaller ground counter forces and much larger air forces than some of our strategots once thought.

Our most reagain send, then, is for ever-meanting facts of aircust<sup>2</sup> And, fortunately, these is pat what we are griting. The American account insulator uses in producing as many airplanes in all the rost of the world contributed. In 1978 we made 100 planes a month. Now we make their times that many in a single working day. Be the cod of 1974, one produces a month of the doctor of 1974, one produces are sufficiently and the code of 1974, one produces are sufficiently and the code 1000 months.

But at this stage of the war, types of planes are more important than more numbers. In the early months the program was heavy, and properly so, with single engine trances. Then, so training planes accumulated, the emphases alliford to heavier types.

complishments of America's industries.

Now we use treating out noish engand boothers at a set that is the curve of the eatire would. Some months ago the Pensident of the several that has the curve of the several that we were insurfact torus \$50 kmg-enger broadshor was contextually because over month. The Equation was contextually

even then. And soon we shall be producing planes of this one type at a nite obequate to replace the normal losses of a free of at least 1000 American heavy bombers operating as continuously as the weather will permit

wanter will permit.

A glimps of the paradage production may help
us still further to evaluate the minuculous achieveneous of the aviation analysts as a whole it was
\$9,000,000 in 1941 ... 291,000,000 in 1942 ...

911,000,000 in 1943 ... spd 1,447,000,000 in 1944 —if we need it. These you have the magnificent second of the American accreait manufacturing undustry—a reconstruct to the cooperation of industry, labor, government, and to all-out tearmer's between the avidation industry and those other industries which have one writed that familities to the manufacture of aimplanes.

What of our enemies and our Alliest German production probably has fattened out at 2500 a month — with decreased systems in tra-

needste proposel. I paper may be able to produce as mediate proposel. I paper may be able to produce as many as 1000 planes a moreh — until we get our owe long-sange purpe-benches in subfacet nombers to whithis down that figure. Italy may be able to terms out her. 500 a moreh — for a little longer. At beth the mediatum Axis nonthly betal as 4000. Add to our morehly some of nearly 5000, a total of commissionals. 4000, for Manies. Combin.

of approximately 400 for Rettein, Ceruda and Runia, and the United Nations sees course to 12,000 morthly. There we like a there to one advanage for our side, And between our own thing production and the belliant operations of our bandor ecommands we should scon boost the ratio well above that Figure. Therein Rus the certainty of continued and growing air separatority over all the far-fieling battlefelds.

In dung institution. The coins of absences miphus quality has been thoused over size the risks of easing combine boost over size the risks of easing combine boost for to one. In the facility was not broadly maried not strongly a size of the coins of th

Behind the production lines the battle of research and design still rages. In many a laboratory nightshift, on many a secret test field, new and terrible supplies for the enemy are in the making Separabourbers, destined for Tolses, have hore since noused out of the design stage and the Japanese may hemabout them almost any day. New discoveries, dissigned to sow sorts and other devastation, are further along than our currents believe. No leager will fogor storm or night be permitted to fight on the sole of our fore.

The stem of science who are toding to broaden the horizon of our knowledge stand today on the thoushold of discoveries that have been sought for contrains. Now necessits of power may soon exert a professed inference as many fields of technology and through these on our way of life.

and friences there or our vey of the Chee the vein two their near the correct wall Chee the vein two their near the correct wall contributed to the contributed to the contributed to contribute thousands speed their two vibilat their contributes of the contributed to the contributed to transpection will being would transpect their transpection will being would transpect to the speed of the contributed to the contribute of the season animalitations of supplexes, then you the season that the contributed to the contribute of the contributed to the contribute of the contributed to the contributed to

This quality that now make each of our war plants worth to may of these ball by our enmiss will be translated into the steady reliability controlled by conclude question. The devices that sack out and ford our escrites beliated the voil of free or dischars will, after the war, notice worker humants to the goint where they will be no guster in the air time of the ground. Science and forbatty will continue to do their feels and do them will like if it the world is no be

mide a better place for men to the in, statemanship reset not full to do its part of Wor Plants and Surplus Propnary survey of the scope and extent

tiral Charater of Commerce to shaty

in the production of rew materials. correlate to transfelds in a highly war supplies, industrial wardeners. building and operation of shine. of you the problems of discountries censumer goods, and beaking F Voorher Chaleman - Arrors the 27 men who have accepted grylin- > Problems Invited-All business-Coversities set up by the Arreson.

U.S. Plans National Service Act. Informed Observers Believe Drafting of labor appearing more likely daily, but poly after advance "educational" campaign to soften the shock.

By SCOTT HERSHEY There are successing since that valled Buffaloulus. They clay couch

the soverement's arriver to the manpower question will be a No- who are heatant about moneuran the deafting of labor. That conment expected from the Office of Wer Mobilization, handed by James F Bremes, to prene that far. The announcement, which was sched-Answer Secret-The nature of the there are many - have all been

Bethle Plan-Amone other ore-

is selected for a committee which business of ementy industries—the!

postupie placeire. Albert C Mat-

tes president of the Herolain Onli

would be deficult for him to nor-Contract Withdrawals - Another possibility presents thelf-the with-

is setually waiting for the opporb Male investory—One orderators of possib reach in discussion is the as- Act is seen in the avonous for a

Seut 16 to 30 It is a reaper stop Harbor fathers on Oct 1. Most session the middle of Scotember Flate Congress' Lap-And that is a

Potent - Near Administration lenders look to the Buffalo plan. ship plan, so a means of avoiding the aircraft industry, particularly

San Francisco May Get Chinese Plant the site for the building of Dougles



Chips Aircraft Conference Col. Laws

PRODUCTION OFFICIALS CONFER WITH AWARD Charles E. Wilson, monochurrann of WPR and shareriel Command; Rear Adv. E. M. Pace, News Bureau of

I Chinateun-This is anticipated as "large number" of Chings to be

AND out other generatural pfinals danne a meeting

b Irrepotante Trajeine-Street and

Brazil to Build Ranger Engines

Ranger Regime Diversors at the Furchild M.62 a prepare framer ofentical with the U.S. Arrey's PT. \* Agreement - Under the serverto 200 ke, making use of drawanes.

Sowant Hughes and Henry J. Hughes that he wents the sportstheir \$18,000,000 "baccast faine hold" present in Colory City Colif. -Effward G Bern seneral manager president, and John W. Le Duc.

FRances-Some of these rangers

Bern Walks Out as Kaiser-Hughes

By SCHOLER BANGS

Kenneth Ridley, Hughes chief engineer, takes helm as announce-

Cargo Plane Project Manager

ment pevenls Nov. 15 counterion date is revised.

F Bulley New Chief-Into the front office, with full charge of the

Largest Propeller The world's laurest forryblade on everyon at the Museum ec Science and Industry to

to derect all preparations from soles manager for Hughes in Wosh inutes for a year and then manager Form Bulbon-Confronted recently shidoed frees has control to Radley

neer of Hurber Average Company



# Have you ever been out of a job?

### What you can do

bring is to asset as environment formable to continuous industrial profess.

In don to be to other dead by ministerin proggree to flowight a militarwish understanding of the first that we live better through dong more work in feet more.

Nepne-wide understanding of that feet will

Nationwide understanding always will be a with addressing, unless seals beginner men discr air share of CD Understanding his own responsibilities on amountaining selection programs (O) Conference the relation between med brist

ne (blow). The consequent step intended have in MaGaw-Shif's show in the plot of exploiting the same of algorithms; the same of algorithms; the superior is which in the same of the same of the same of the same in all MaGaw-Bhif publishment. It is said-tile, for our war your own energies equitately, to pure plant may A. state, allowabless time for same special color, will be sent to you good negative. Brookle, organize war also sape topps negative. Brookle, organize war also sape.

sible for our ever your error company equators, to your plant may. A met, alreadems time for encoupage experiments, will be need to you upon request, Berkhin, marrors not also may global area (\$10.00 per identical).

McGaue-Hill Fubbiding Company, Ires

IF you have ever been out of a job, and if you had a wife, children and slender resources at the time, then the factor paycheck will nover quite obscure the memory of the days and nights are lived with the

Some of that fear lingers to every mus's mind, for all have suffered as some degree. That's why you hear the words "postwer

pleasant? so often. Assertous are determined that, one way or naselter, they are going to keep our theamands of factories going after the way, so that there will never again be a vast army of unemployed.

As usual, in a democracy, these are two catirely different ideas as to how to make 56 million jobs grow siter the war, where only 46 million awared before

assisted before.

Both kinds of people, who hold these different ideas, sincerely want to make the peatwar world in better place for you to live in. They have complicated arguments, backed by lots of figures.
But when you trim all the arguments and

figures down, you find that one side believes in DAVIDING jobs to make them go rounds not the other side helieves in MULTIPLYING jobs so there will be greater opportunity for all.

We believe in the MULTIPE.YING plea for making postwer jobs and ask you to believe in it too.

Look back over our history. What made us great? Wes it rish soil? Africa? it as rish. Was it

TYPER MARS. If you would him to publish this mensus were must went ones must notice of disputation of all handy houlder form, order on were farmed by Days Martine Hill Publishing Go, No. 130 Wars Claff by New Tartick NAV

#### Have you ever been out of a job? (cont'd)

meteral resources? Chine has them in abandance.

NO, the greatness and the good living of America is the direct product of her genius for doing more work in less time.

Invention is the source of improvement, and improvement is the multiplier of jobs . . . when products are improved in service or style, or low-

new jobs created.

That's why it is true that good living has its source in industrial progress.

When industrial receives is intermed we

have a depreciation, and there is one should liver,
When (through contribution investment in more
and here (through contribution investment in more
and here (through contribution investment in more
and here (through contribution in the growth of the growth of the
ego can to even higher levels of good Bring,

If every able-bodied presen in America is to
have a job, then we must all understand the things
that the contribution in how a given so much
also instruct the methods that have aliven so much

For businessares, that means a constant search for improved methods and machines, a regular year-after-year investment in industrial progress. This means avoidance of such things as specuficing in inventories that tend to ereste boson and decreasing rather than constanted to orders.

For every cleines, it ments a constant search for the best ways and means to prevent and core deprecision.

Businessmen, alone, cannot prevent but dimes. It's a job for every citizen. Hvery American conbol is at the known at that food living comes from

doing more work in less time. If you, and all other Americans, swing on to that fact, the lers will centred our rate of indestrial progress will be better designed to keep the improvement augitaraming.

That's where government really can be helpful.

in postour planning.

It can encourage the "take a chance" spirit that is the brain of all progress. And it can improve the measures which proper the control of the progress of the progress

May local, state and nutrend taxes work out in first of feeting an old machine, instead of

► There are tens of thousands of mechines in the country that are over 20 years old. Even our shiny new war equipment is living 3 years in one, and will he old when the way is over.

Every machine should be regarded as obsolete as soon as it is installed and work started on a better one. In the long run, that is the best way to realizely toke and erente better living. Our laws

Now methics can only be bought with the profits centred by old mechines. The mency that machines is cold of the profit centred by old mechines is cold. "Seed Money of buttered we see much of the Seed Money of buttered has well as the paid, but they should not destroy Seed Money, which is the only source of improvement.

metter what his walk in life, to know this fundamental fact:

"Industrial Progress is the Source of all Good Living."

THE MCGRAW-HILL NETWORK
OF INDUSTRIAL DODDHUNGATION
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WeGEAW-HILL BOOKS

Palestes of bethind, engagement and besimes broke firstless, which and for hear over and designed part.

This advertument is analytic to handy britist form, (Low thus NO copin from Larger constitut, 11.60 per 100, \$10.00 per 1000.)

#### McGRAW-HILL

PUBLISHING COMPANY, INC. . . . BOOK COMPANY, INC.

THE McGRAW-HILL NETWORK OF INDUSTRIAL COMMUNICATION:

Assume Malades As Transport - Assume - Assume State of the Commentary of the Comment

ATTON WYDE - Controlog 6 150

solv wepor changes, a "allebi scannel Defense Plant Cornoration dending of New 15 for completion

non' Bucher officials declared to is acheduled to follow the status a Short-Sleave Supervision - Durhes, Boat No 3 to due three months ofter plane, a two-boom creation that ers opposed to Kraser's big beet plus ransums, construction of HK-1 to well through the insersity stage

J, will vote for or agentst UAW-

said Bern, "and has not expected my unaded for state; load levis, had been are under construction and in a easury, 199-ft boalders, not ex-120-ft, wange Visible from nearby highways is a sowering playwood recently personal with Maraya Der-

#### TRANSPORT

#### CAB Simplifies Regulations For New Route Applications

Extends time for filing of interventions but orders separation of pericions for domestic and foreign service.

ton of all applications filed. These and certificate helders and has asb Consulidation—In separative area Mage - Filed with application

maps no longer need show equippe distriction in Pline is being made. ume of material sent the President ) "Oversens or Fereign"-This reficates and permute shall be trans-One part of the order may ented

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applications has completed the

Notifications Now the board an-

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matted to the Provident by the Authority before bearing thereon, eard, but others, in filter for save-

Army Base Officers Plead for Air Service Communities of 25 Helds and deper rise poor mil fections.

manding offerer at military bases nental Air Lines. They ingleded Applications CAL filed the recen

prends in support of its amended application for temporary, permapent or limited our service between



terventions (265.4). In the past,

FEDERAL DIGEST

#### WLB Opinion Says Federal Powers Supersede State Wartime Labor Acts

Summers of government actions for the week includes DPC logns, NWLB and NLRB orders, and OPA poice regulation.

Objo. completely directablish Air-UAW-ClO and Insunational Asset eraft Co., Senta Masses, for addatowal plant facilities costupe \$250 -DPC commitment to \$950,999 Doneof employees of those commissions: ollans that Old Good Assn and Social and Secretain Club are labor \$440 583 to \$2,600 555. The pyra-A Equal Pay for Women, The board | Elections Directed - Within 30 cycle drayers of the two North Halbrayped plunts of Bendix Aviation, Ltd., with voce for UAW-CIO: ha-

National Labor Relatious Board's CIO, within 30 days of Aug. 16

Martin Co. Middle River, Md. CIO so they collective baryright

agent. This is the first cun-off elec-National Way Labor Board has trial examiner William E Spencer on at percent for the UAW, 11.15 the President and Congress super- ucts. Inc. and Thempsen Averall 42.33 percent for name • Certified - International Assn. o FORA Baynel maximum reve rec-

> stant menute (Bay MP9 136) New Aircraft Flooring Gless Martin Co mos ten riburo

Glenn L. Marun Co., which will allow additions to payload and ef-Might & Strong - The material Beyrage-Maker-Martin enringers neither. All tracksepors of Eastern ourplane a pound of weight saved may add up to \$100 in revenues

AVIATION NEWS . September 6, 1943

the fling of applications, by peet-

and If volde. These and other apply-

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or Fort Worth and a transfer at one one commanding officer Direct I open Ucced- "At overest." seed another "It takes lasery for "It is extramely desirable that a personnel and shipment of express,

Thequationably, direct arrians the war effort. Restrond furthfuse official correspondence," and anb Vital Need-"In the operation of possenger, and express transportsdents from the Army or beace at Midland, Buy Springs and Son At-I ween these class and Corbibed in very had We have a train which

other open," one offers and

The reade is an excellent idea.

of personnel in addition to most. LAT surport manager

Communiting officers are now united The letters came from brander

#### other retublishments MCA Asks Roures

To anoly for more midwest servsees, with expression to Atlanta Mod-Continues Audines has one fity to Atlanta Morrespolar-St. Part to Charles up Resharter St. Paul to St. Louis via Rechesler Waterley Cadar Provide and \* Booles -- Already applied for my Fort Wayne, Ind . Macreaged to St to Beston, Causda, feeder routes cont to its present territory, and in- POver Sea Beate-American Au-

#### Airport Troop Lounge Underway at Lockheed Service sverzen's idea sesulte in new building as sir terminal What way develop lets a naturawide somer to the grouder at

plane connections is offered by Lockhood Air Terronal, Barbank hOffern & Nos Websess Dr Sentember 5 a "Treepe-ra-Traust" Ritar Star Service Women and be-Belaxed Waiting - 'It will over service men, many forced to war! roods for travel orders, the relaxation that is impossible under growing crowded conditions in air terminal

sirfiner." says Dudley M Steele.

#### Domestic Carriers Study Feeder Idea

Airline relies room collection data on province \$ 000 communi-

b Oatlank-While they almudy are b Freedow Lones-They may, m fact. Northwest Leads-In the meanthe bell religing month in the interna-

to Tokeo, and on to Shanghai and More Planes To Bring

Civil Accomastics Board it would

#### Added Cargo Flights Bry Great, new Womers Air Lines. express chief, forecass additional

Bay Grant, newly appointed mail expens and traffic manager for FAR-Cargo-Commention on Amerioff lines upon the return to the in-Districtment Barrier - "We could

#### Big Braniff Gains lub mail and express up over 100

percent from year ago. Scock Brazali Angeres, in offering 400 line company-has reported un-July over the same mosth a year b Mail on I Express - Mail Volume was up ever 188 percent from 251.621 pounds to 532.684 white 73.832.640 to 200.056.410, or 183 from 30,783,900 to 73,592,529, p. Finewest Up-Streets passengers socreased 49 percent from 25 451 to 14,632 Passenger rates coverated

\* Scualf-Now fifth import surpre-The offence was oversubstrained \$2,000,000 at to be used to purchase proposed foreign route marriage

were 4 129 566 in July, then year

much, a gun of 77 percent Plan-

# NWA May Refinance

Croil Humbs, president of Narrhthe conveyery is considering frame-

#### NATS Flies 15,000 Passengers Monthly

Navel "circles" some about 100 More than 100 two-entire and

h Far the Pleat-NATS note or a 2 000 000 cuch month Although the largest pyblic fromming moves many of the personnel me former note sends them-en any kind of weather confident and with any P.McCris Corresponds - A correspond Until the recent reorganization

h High Speece - Officials extension

ner of the Nevel Ar. Transport country. Its planes flow about 25 their load on passengers, easy to \*Load and See-Both landgleness and firmy beets are used in their priors to resident opening for the



NATS Serves Around the World: Naval Air Transport Service displicate. cremes like this arrowed the world, leading war cargo, suched sucular, on-

#### TWA Filing for Foreign Routes; Reports Over 1,000 Ocean Flights

Request to CAR for Los Angeles-Hopphology service says other international anniversions will be ready upon By MERLIN MICKER

Transcodingual & Western Acr., Transcort Command once Echroremounding last week it was filled new 1945 and was "the first degrees." Les Auerles and Honolule, disclosed Prediction - Processing Inch-

hala, which now secretes occurs the Kations, including President Resera George Beste - TWA's surject-

speed service from American office tions with farsim countries for 2.557 miles to TWA's present 6.504 He said the late would be ready # Crossings-In describing its ATC adding that "equipment to fly this more than 1,000 come common.

tion was described as its first for a and wounded from battle areas

Applications received by the Arnone recently filed amendments Krancky-Transmits Aldians for the time for the control of the cont

I biled Transport, Oblishons City, Tri Selection of Selection and Asperts of Marchael and Asperts of Marchael and Asperts of Marchael Asperts of Marchael Asperts, Trans. Articles and New Marchael and International Asperts

(hemoraho AleEm, Cull P. Sch. non-NA AP Transport Command stallands of Assumbles, Ca. Changes payed box request for intended posters of



KIM MARKS INAUGURAL PLICATE When the first transport of the flost operated by KLM flowed Dutch Airbana

• Doe Horn Aleways of Sheridan,

tured that Ray Hern Arrways in United Are Lines has applied to CAH

\* Apprecial of interlociona relationof Delta Air Corp. and streetor of Air

An opplewise by Serred J. Soluwithin the meaning of the Coal m of a temporary patter, and days is of a temporary nature, was over business under War Department th-

rection as a "non-profit endervoe of \* Transa-Cornells Air Labor annuares on successe of 123,574 younds, passengree numbered 12.460, an ingresse of SHE and oppress assessed to 75 pag.

pounds on revenue of 42,071 counts

AVIATION NEWS . September 4, 1942



The Leeph King of Long Island.

City. Sampley London, 22 hr 42 run. \$256 record true. Bay de Japanere 19 hr., 3350, Moscow, 19 hr 12 map. 12 12. 3250, Moscow, 19 hr 12 mm., \$250 Cesse, 23 hr 13 min, \$252, Telovo, 27 hr 36 min, \$252, Santaure. 43 hr. \$540. Borekey, 22 hr. 5432 Countroys, 36 hr. 8460 Arbitant 37 hr, 35 men. 5507; Hegun Konz. 44 hr. near Everyour America news from 244 . The tentague solvefule was been grest circle routes at \$50 miles an

microsco of the energy cond-

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City (now \$20, was \$35), Brywn-

Aires, now \$524, Brownsydle-New

tions apply to count-true feren, the

A tentative sebedule of tens and York in 1846, prepared by Pan Arner-

Experienced Hanafacturer of Aireraft Parts and Assaulting

OFFERS ADDITIONAL

FACILITIES. for ecodertion of other

precision parts and assemblies

Although wrom now boar production

Because fires will remain at the same

Springs Army Air Best

remitte thereafter. The line was term-

wronk - indx - ind gues, we have swelche odditional profession feel ction page or assembles.

Innection Engineering Service on Fraces Agineering, Masslettering Methods, Tool, Dis. Junes and No. contract service with the Array,

Security on NOVEY White ... Wines.

#### PERSONNEL



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U S. Dept of Labor J. J. Witson.

cently replaced by Gat William Mean.

Shann No nonexpanied Copt. "Sidde"

Calva & Townsed, faracter of contract.



deet and legal counsel, and Breader O'Pered, secretary in charge of no-Carr William H. Greben, Jr. but been

WILSON VISITS FAIRCHILD AIRCRAFT: On an opatern year Charles Wilson, WPS vice-chairmax, called at the Bauerstourn, Md., plant of Pairchald senance. Edward Place, editor of 'Laker Management

M. Hysbyn Jr. etset at Resources Discuss. ABCO.

director of the war production drate; Mr. Wilson, J. AVIATION NEWS . September 6, 1943 as February 1942, Copt. Gestings was

is the Degree recognitions office.

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throughout Nebussics and Idaho hevisor of pystora-

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1020 in bumpers administration, and Thomas D. Brooks has been appointed

overheal base at Mousphas, succeeding ten erect while in the U S Ma8 Wiles (left) marrage manager

8 Wiles (1971) magrane manager with hendquarters in Change Re was farmerly with the RFC as sensor exgrare and rubber reserve salvage, benaccoods E. C. Themse (right), who ke transferred to an executive tob an United's Sex Francisco hendquarters.

possing the University staff 16 years of construction by Westinghouss in

a number of engagement societies including the American Society of Me-

WRIGHT TELLS A SCOUT has first plane to a nouthful Avr Scret reader builder This latest



Station and reservotion managers of Pennsylvania-Central Airbines med W. R. Montheater, superintendent of operations, Charles Knoble, superintendent of arread and ones, V. K. Stepens, D. C. Witt, W. C. Barnhart, J. J. Both, H. E. Cole, represented at a reservations and C. J. Miller, In

Feur enreafire changes have taken alone

Analysis of Transcontinental Lines Shows Best Record Made by United

Imposture increases shown in all departments by Big Three carries for fire half of 1944, with everyon traffic leadings.

By ROGER WILCO

tel college because TWA and United in the reports recessly re-Anabrais - Triorn by themselves, mace on a relative busin This smaly-

there lines do not have spentical are more comparable than any other

TWA was up 18.5 percent while 193.6 percent Magress-Percentagorese the mpercent for TWA Everyn course.

simple terms, once the REA is reim-\* Breberré Bales-With an 11 percost reduction in effect in of July 15

evidently is of the same view an on express tariffs, the carriers will Piecess Posits-The whole ques-

Depending Costs - American re-

teally unchanged with TWA up 11.5

Profes It is because of high load

After federal taxes, United con-

treas were United, 144 percent.

at as highly in this respect and acgrand its total federal second tax The secondary tables inflicate

the connect. The figures speak sistement, not only encompassing

pany Core what may, full disclagood and bad is highly degrable Ryan Reports Nes profet before renegatistion is 97c a share, or \$424,648.

dated net profit for the company and its whally recent subortaries

for Manufaction of the Riv

No. Park below Federal Income Forms Freeings for Poincel Income & Entere Profits Taxon

PRANSONTENENTAL & WESTERN AM, INC. Six Named Street Page 20

General Streets

worplanes, and General Sterman 575. Not rought the above was 97r to share. These posits are subject to

Wright Income Up Easter rabidary of Certis-Wright doubled 1941 shipments. Not commo for Wright Assesses.

a percentage of 1881 to miles after Number Science Forges - Guy sald remonstrations for 1942 have payable for the year amounted to \$50,919,384, to be reduced eventually

by the post-wer refund of \$4,922,-

with \$200,345,090 in 1941 and

red that Wright Curious corines power Bottse Flying Fortressen.

cees, Grunction Asymptox and other Willys Steps Up Aviation Operations Resort for nipe months shows

earn in production of soundhing

les, is noted in a pine-resetly; inpost ended June 10, which said the billiand Producer-The comments

\$ 19% Increase...The statement rewas, and Joseph W Framer, presi-664 after recording \$14,123,000 for

Extend per channes where Construct above commendate

Not East. from Operat.

Earned per request these Constant share revised as

## EDITORIAL ..... More Authority Needed for Navy Aviation

R DOWN MORGANIZATION of Navel awarton does not ties and in the Office of the Deputy Chief of Naval

Most attention, naturally, has been given transfer of operations from the Bareau to the new Office and ten rankens arrives in combat. This matter is

the mercy of other non-eviation bureway Agronautics personnel, although responsible for

which spes into Navy planes, have only limited The Bareau of Shuas still has the last word on is undisputed boss of agernal armsment. Thus, we runs on a wallowing surface vessel become author-

A sensitor control by ship men prevents even in

approuncement made the nount that personnel funcmutics. This resulted in the concred impression moted Admiral McCain. Here again, however, it is

should strip the old-line bureous of their authority That, to quote the Navy Department's own press responsibility and autonomy of the acrossumes orconvenience or properties the firest aircraft types to vitally important to the operations of the war."

# Airline Passenger Service Problems

remove any year are drawn a remarkable tola despate wartene difficulties, but there are becoming ownered to air travelers increasing delays and slin-

Results of these oversights are confusion and delays far out of proportion to their cause. Appareatly the fault lies not in the employee's critical training for his job, but in seeing to it that he the complaint that on several lines more passenages can be taken aboard. Thus results in delays up to sensers interviewed, and the inevitable removal of Errors by reservations people are growing, such

utes or more, is now common. The catalor of delays able regulation for service to the traveling public. soutine would have amount results.

Buy Tail Wheels...Tail Wheel Tires & Tubes

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General tail wheels are curred, built to take as each above as main landing wheels . . . yet they're light-for increased assland? Designal to meet Army Navy and C. A. A. specifications General tail wheels and tires able have proved their superiority in action on every type of carculat and in total rue of General's own commission equipped laboratories as well as in extensive sess by leading users A case in point was the way the General Twin-Boad tail wheel sire stood up . . . where single bead tires failed . . . in sideload toru run by a large, eastern aircraft company, General's Twin-lived feature

Yea Can Determine Correct Aircroft

The France in Ant 40 Seconds ...







# A NEW AVIATION GREASE...LOW-TEMP THAT WORKS AT... MINUS 100° F.

38,000 Ft.

Based on the belief that the stratosphere temperature was minus 67°F., Aviation greases were developed to lubricate critical airplane controls at or above this temperature.

However, recent test flights in the stratosphere recorded temperatures ranging between minus 80°F, and minus 90°F. and other tests registered still lower temperatures. The U. S. Weather Bureau has confirmed that temperatures lower than minus 6°F.F. exist in the upper air at all U. S. stations on practically all days.

On these test flights, greases made for minus of "F. remperature froze up when the stratosphere was reached. To correct this serious condition, Texaco developed a product which will permit all parts of the plane where it is used to function perfectly...even at minus 100°F. This product is Texaco LOW-TEMP Grease.

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